

Structural/Framing

Access to HVAC in attic – no walkway & greater than 20 feet from the access opening  
Anchor bolts – no nuts & washers installed – install and tighten  
Attic access – all areas > 30 sq feet - access not provided  
Attic access area not provided (22 x 30 min) for areas of 30 sq ft or more  
Attic access provided through small utility closet – not allowed – provide sized opening  
Bearing wall – center floor – double top plate cut w/3 foot opening – no header  
Bottom plates – both cut through – correct with additional plate and studding  
Cathedral framing – no beam at ridge – add beam and post through to foundation  
Cathedral framing – no lower 1/3 ceiling joist – add ridge beam w/ columns  
Ceiling fan/light – improper hanging – add proper hanger  
Ceiling joist at dormer not on hangers – add hangers  
Corner not framed with tie-in top plates - correct  
Crawl space – requires ventilation openings – add as required  
Doorway w/ garage – requires self-closing device  
Egress opening minimum size not provided for room emergency exit – min 5.7 sq ft.  
Egress window – remove shipping stops to provide for adequate egress opening  
Fire Blocking/draft stopping – 2 x blocking – gable ends  
Fire Blocking/draft stopping – tub areas  
Fire Blocking/draft stopping – 2 x blocking – horizontal and vertical – minimum 10 foot  
Fire Caulking vertical (and horizontal) holes and openings  
Firewall – penetration of firewall not properly sealed  
Framing – double joist required under bearing wall  
Framing – no hangers on joist  
Framing metal plates where top/bottom plates are cut – add for bearing walls  
Garage separation w/ gypsum incomplete to garage peak  
Girder – splice of girder not over column – add column  
Header not appropriately sized – 2 x 6 span 6 ft – not compliant to span tables  
Headers – 1<sup>st</sup> floor – 2 x 6 excessive spans – change to 2 x 10  
House numbers not in place – add  
Jack studs – not continuous – cut for window sill – remove/replace  
King studs not tied to jack or header – add fasteners  
Nail plates – top and bottom wall plates – use proper 4” x 6” plates  
Pressure Treated lumber required for all concrete/cement contact – remove/replace  
Proposed sleeping room directly off garage to house entrance – not allowed  
Rafter and Ceiling Joist not tied in at heel – not aligned over studs – align and tie-in  
Skylight framing – provide provisions for insulation  
Stairway center stringer split – defective – remove/replace  
TJI joist not centered over 2 x 4 wall studs – add bracing/blocking 12” from top plates  
Top plate – 1<sup>st</sup> top plate not secured to studs – add stud at end as necessary  
Top Plates – not joined over studding - correct  
Top plates joints not located over wall stud – add wall stud under joint  
Truss – mechanical ventilation installed on truss – no spec – add additional mfg gussets  
Girder – load to foundation not continuous – add column/post for bearing support  
Truss system not properly braced per mfg – requires additional bracing  
Waste/Vent pipe – insure minimum 3” pipe for termination through roof from 1’ below

Decks:

Deck – add column due to spans

Deck girder – not sufficient size for span of beam and post – add column supports

Deck Ledger – no positive anchor – add bolts – lag attachment required

Farmers Porch – top/roof ledger not secured with positive anchors – add bolts/lags

No flashing – add flashing

No nosing provided for 1<sup>st</sup> tread

Electrical

Add disconnect to service entrance – panel box too remotely located

At panel board – bundling of cables/wires – heat buildup – un-bundle all

At panel board – wires/cables not secured @ 8-12” from panel board

Bare/live wires not covered

Box (es) without covers

Breakers not properly labeled – as labeled does not control circuit

Electric wire/cable routed across floor joist

GFI – basement outlets not proper type

GFI circuit/string not working – incorrectly wired – polarity

GFI circuit/string not working – no ground continuity from box to box

GFI not installed where needed

GFI not working – pool – incorrect wiring - line/load terminals

Ground not properly connected to panel – wire strands free

Ground rods (2) required at garage sub-panel – add

Grounding – secondary & dual grounding points/paths – at meter and at panel

Insufficient lighting to stairways

Labeling – no labeling of Panel Box/breakers

Neutral not grounded/bonded – no grounding screw for neutral & ground bars

Neutral not isolated

No connection – neutral conductor not stripped

No light switch within reasonable reach of door entry/exit

Not proper clearance provided in front of panel box

Panel box – not all openings covered – cover all

Reversed leads – hot reversed w/ground or hot reversed w/neutral

Schedule 40 – replace with required Sch 80 - outside at house service -

Wiring in contact with metal mfg chimney – remove/relocate

Wiring under tension – remove staples and relocate

### Smoke Detectors

Add detector – omitted at specific location and/or complex layouts  
Arch Fault – detector bedroom circuit not tied to Arch fault breakers  
Beam protrusions require 2<sup>nd</sup> detector coverage  
Chirps – batter not installed – install/test  
Chirps – battery dead – replace as required  
Detector not functioning – replace/repair as needed  
Faulty detector – horn not audible  
No interconnect – bad detector – replace  
No interconnect – incompatible units  
No interconnect – wiring problem  
Placement – placed directly above wood stove in basement - relocate

### Foundations

Drainage pipe not in stone bed of minimum 2”  
Drainage pipe not properly covered with minimum 6” stone  
Failure to provide foundation certification  
Foundation to footing not sealed – poor coating/covering  
Foundation wall not sealed effectively – poor coating  
No cover membrane over drainage  
No drainage outlet provided – closed system  
Sona-tube depth – not to 48” frost  
Sona-tube placement – not centered under beams/decking  
Stone not to depth of footing plus 6 inches

### Stairs & Handrails

Guard – long upstairs guard/rail not secured sufficiently  
Handrails – height of handrail not to min 34-38”  
Handrails – minimum handrail clearance not provided 1 ½”  
Handrails – no returns – requires returns top and bottom  
Handrails – not provided, guard top only (2 x 6 or 2 x 4 type) – add handrails  
Handrails – outside – 2<sup>nd</sup> handrail required  
Handrails – too short not continuous from end of top and bottom treads  
Horizontal guards – climbable – requires replacement with standard vertical balusters  
Handrails – outside – require handrails both sides of stairways  
Stairs – nosing not to minimum < ¾”  
Stairs – nosing too great > 1 ¼”  
Stairs – risers open – close to no opening greater than 4”  
Stairs – run & rise not compliant – replacement needed  
Stairs – run and rise – rise beyond maximum of 7 ¾”  
Stairs – run and rise – tread not to minimum 10”  
Stairs – variances greater than 3/8” between step to step

Mechanical – appliances, ducts, furnaces, etc

Access platform for attic mounted HVAC - access platform not less than 20" wide  
Access work area for attic mounted HVAC – not less than 30" all sides requiring service  
B vent pipe clearance – zero clearance provided – requires minimum of 1"  
Cold air return duct not insulated in unconditioned space per ICC 503.3.3.3  
Concealed air ducts for bathroom – requires class 0/1 – UL181 type – replace  
Condensate drain in unconditioned space – protect from freezing  
Condensate drain not properly "tee-ed" – requires open "T"  
Connector pipe – clearances (18") not provided  
CSST listed striker plates required w/ CSST piping  
CSST poor workmanship – remove/replace  
CSST poor workmanship – radius of corners  
CSST poor workmanship – excess protective coating removed at couplings  
Drip/Sediment trap not positioned vertical – remove & reposition  
Dryer Vent – concealed vent not solid ducting – no screws – add solid ducting  
Dryer Vent – improper tape usage (duct tape not compliant); no screws  
Duct restriction – relocate to fix radius – non restrictive  
Duct tape used on exhaust venting – replace with proper (UL181) rated  
Duct work installed in outside wall w/improper insulation  
Duct work installed in roof framing – prevents proper insulation installation  
Ducts for bathroom venting not routed properly – no sags, high spots – re-route.  
Ducts in exterior walls – requires insulation in addition to insulated duct – add R-8  
Gas control valve and line – pipe and cap the valve exit  
Gas control valves – shut-offs removed – add handles  
Gas fireplace – 1" clearance at vent pipe not maintained – provide proper clearance  
Gas regulator closer than specification to open window – 36"  
Gas tank – in ground – not sufficiently covered – minimum 6"  
Gas unit – fireplace – propane – no conversion sticker  
Gas valve – no access provided to gas shut-off valve  
Heating unit not installed per mfg instruction – not within 12" of curtains (window)  
Oil line not properly secured – hangers are electrical staples – provide proper hangers  
Sheet metal screws installed in dryer vent duct – remove and tape joints  
Vent outlet – furnace – not installed with minimum ground clearance w/snow at 18-24"  
Venting – bathroom fan vent not sloped for drainage of moisture – traps water  
Venting – bathroom fan vent not vented to outside  
Venting – min 12" above grade – to include average snow accumulation of 18 – 24"  
Wood stove – clearances not provided to curtains/combustibles  
Wood stove – secondary damper in connector pipe – mfg requires removal – not allowed

Plumbing – water/sewer/sprinklers

Caps – tank & boiler drains

Clean-outs not provided as required

Concealed fan vent piping – not compliant type - replace

Hot/Cold “pex” routed through same access holes – separate/reroute

Main water tank – back flow prevention device required at drain

Nail plates – top wall plate requires proper sized full nail plates

Nail plates – bottom wall plate requires proper sized full nail plates

Pressure relief plumbing not to 6” from floor – add

Termination through rough – minimum 3” within 1 foot of roof exit

Wash room area – 2<sup>nd</sup> floor – requires pan and drain for spillage

Waste pipe – add cleanouts – vertical & horizontal change of directions

Waste pipe – insure cleanout at building exit to sewer

Wrong sprinkler head applied to residential use – remove and replace with “Res” rated

Insulation

Air ducts in unconditioned spaces – both return and feed require insulation

Mechanical 5.2 -> 4.2 not properly installed – mfg requires spacing to get 5.2

Paper backing exposed – must be covered

R11 attic access wall – requires R19 – replace as necessary

R13 basement – requires R19 – replace or upgrade

R30 ceiling – required R38 (compliance due to glazing percentage)

R30 provided - % glazing requires R38 – need state certification

Miscellaneous

Bed bottom not cleared of debris – clear as needed